

CRF Errors Corrected by the ST Systems Branch

Serial Number: 09/359,300

CRF Processing Date: 10/11/2000

Edited by: [Signature]
Verified by: [Signature] (STIC staff)

ENTERED

RECEIVED

OCT 23 2000

TECH CENTER 1600/2900

#12

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number input by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: corrected CPS designation - Segs 9 and 50

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

1636

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/359,300

DATE: 10/11/2000

TIME: 12:10:45

Input Set : A:\008010137US07.TXT

Output Set: N:\CRF3\10112000\I359300.raw

4 <110> APPLICANT: KUMAGAI, Monto H.
 5 DELLA-CIOPPA, Guy R.
 6 ERWIN, Robert L.
 7 McGEE, David R.
 9 <120> TITLE OF INVENTION: METHOD OF DETERMINING THE PRESENCE OF A
 10 TRAIT IN A PLANT BY TRANSFECTING A NUCLEIC ACID SEQUENCE OF
 11 A NON-PLANT DONOR INTO A HOST PLANT IN A POSITIVE
 12 ORIENTATION
 14 <130> FILE REFERENCE: 008010137US07
 16 <140> CURRENT APPLICATION NUMBER: 09/359,300
 17 <141> CURRENT FILING DATE: 1999-07-21
 19 <160> NUMBER OF SEQ ID NOS: 60
 21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 26
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Tomato mosaic virus
 28 <400> SEQUENCE: 1
 29 ctcgcaaaagt ttcgaaaccaa atcctc
 31 <210> SEQ ID NO: 2 26
 32 <211> LENGTH: 35
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Tomato mosaic virus
 36 <400> SEQUENCE: 2
 37 cggggtacct gggccccaac cggggggtcc ggggg
 39 <210> SEQ ID NO: 3 35
 40 <211> LENGTH: 41
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Tomato mosaic virus
 44 <400> SEQUENCE: 3
 45 tcctcgagcc taggctcgca aagtttcgaa ccaaatacctc a
 47 <210> SEQ ID NO: 4 41
 48 <211> LENGTH: 35
 49 <212> TYPE: DNA
 50 <213> ORGANISM: Tomato mosaic virus
 52 <400> SEQUENCE: 4
 53 cggggtacct gggccccaac cggggggtcc ggggg
 55 <210> SEQ ID NO: 5 35
 56 <211> LENGTH: 24
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Tomato mosaic virus
 60 <400> SEQUENCE: 5
 61 tatgtatggt gcagaagaac agat
 63 <210> SEQ ID NO: 6 24
 64 <211> LENGTH: 24
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Tomato mosaic virus

Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/359,300

DATE: 10/11/2000
TIME: 12:10:45

Input Set : A:\008010137US07.TXT
Output Set: N:\CRF3\10112000\I359300.raw

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68 <400> SEQUENCE: 6
69 agtcgactct tcctcttctg gcat
71 <210> SEQ ID NO: 7
72 <211> LENGTH: 30
73 <212> TYPE: DNA
74 <213> ORGANISM: Tomato mosaic virus
76 <400> SEQUENCE: 7
77 tgctcgagtg tgttcttcag ttttctgtca
79 <210> SEQ ID NO: 8
80 <211> LENGTH: 30
81 <212> TYPE: DNA
82 <213> ORGANISM: Tomato mosaic virus
84 <400> SEQUENCE: 8
85 aactcgagcg ctttgatttc tccgaagctt
87 <210> SEQ ID NO: 9
88 <211> LENGTH: 114
89 <212> TYPE: DNA
90 <213> ORGANISM: Tomato mosaic virus
92 <220> FEATURE:
93 <221> NAME/KEY: CDS
W--> 94 <222> LOCATION: (28)...(117)
96 <400> SEQUENCE: 9
97 gttttaaata cgctcgaggt tttaaata atg tct gtt gcc ttg tta tgg gtt gtt
98 . . . Met Ser Val Ala Leu Leu Trp Val Val
99 1 5
101 tct cct tgt gac gtc tca aat ggg aca agt ttc atg gaa tca gtc cgg
102 Ser Pro Cys Asp Val Ser Asn Gly Thr Ser Phe Met Glu Ser Val Arg
103 10 15 20 25
105 gag gga aac cgt
106 Glu Gly Asn Arg
110 <210> SEQ ID NO: 10
111 <211> LENGTH: 29
112 <212> TYPE: PRT
113 <213> ORGANISM: Tomato mosaic virus
115 <400> SEQUENCE: 10
116 Met Ser Val Ala Leu Leu Trp Val Val Ser Pro Cys Asp Val Ser Asn
117 1 5 10 15
118 Gly Thr Ser Phe Met Glu Ser Val Arg Glu Gly Asn Arg
119 20 25
121 <210> SEQ ID NO: 11
122 <211> LENGTH: 39
123 <212> TYPE: DNA
124 <213> ORGANISM: Nicotiana benthamiana
126 <400> SEQUENCE: 11
127 gcctcgagtg cagcatggaa acccttctaa agcttttcc
129 <210> SEQ ID NO: 12
130 <211> LENGTH: 36
131 <212> TYPE: DNA
132 <213> ORGANISM: Nicotiana benthamiana

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RAW SEQUENCE LISTING

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Input Set : A:\008010137US07.TXT

Output Set: N:\CRF3\10112000\I359300.raw

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134 <400> SEQUENCE: 12
135 tccctaggtc aaaggctctc tattgctaga ttgccc
137 <210> SEQ ID NO: 13
138 <211> LENGTH: 111
139 <212> TYPE: DNA
140 <213> ORGANISM: Tobacco mosaic virus
142 <220> FEATURE:
143 <221> NAME/KEY: CDS
144 <222> LOCATION: (25)...(111)
146 <400> SEQUENCE: 13
147 gttttaaata cgctcgagtg cagc atg gaa acc ctt cta aag cct ttt cca
148 Met Glu Thr Leu Leu Lys Pro Phe Pro
149 1 5
151 tct cct tta ctt tcc att cct act cct aac atg tat agt ttc aaa cac
152 Ser Pro Leu Leu Ser Ile Pro Thr Pro Asn Met Tyr Ser Phe Lys His
153 10 15 20 25
155 aac ttc act ttt
156 Asn Phe Thr Phe
160 <210> SEQ ID NO: 14
161 <211> LENGTH: 29
162 <212> TYPE: PRT
163 <213> ORGANISM: Tobacco mosaic virus
165 <400> SEQUENCE: 14
166 Met Glu Thr Leu Leu Lys Pro Phe Pro Ser Pro Leu Leu Ser Ile Pro
167 1 5 10 15
168 Thr Pro Asn Met Tyr Ser Phe Lys His Asn Phe Thr Phe
169 20 25
171 <210> SEQ ID NO: 15
172 <211> LENGTH: 44
173 <212> TYPE: DNA
174 <213> ORGANISM: Erwinia herbicola
176 <400> SEQUENCE: 15
177 ccaagcttct cgagtcgagc atgcagcaac cgccgctgct tgac
179 <210> SEQ ID NO: 16
180 <211> LENGTH: 43
181 <212> TYPE: DNA
182 <213> ORGANISM: Erwinia herbicola
184 <400> SEQUENCE: 16
185 aagatctctc gagctaaacg ggacgctgcc aaagaccggc cgc
187 <210> SEQ ID NO: 17
188 <211> LENGTH: 23
189 <212> TYPE: DNA
190 <213> ORGANISM: Tobacco mild green mosaic virus
192 <400> SEQUENCE: 17
193 tgtgaaactc gaaaagggttc cgg
195 <210> SEQ ID NO: 18
196 <211> LENGTH: 36
197 <212> TYPE: DNA
198 <213> ORGANISM: Tobacco mild green mosaic virus

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36

51

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111

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RAW SEQUENCE LISTING
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Input Set : A:\008010137US07.TXT
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200 <400> SEQUENCE: 18
201 cgggggtacct gggccgctac cggcggttag gggagg
203 <210> SEQ ID NO: 19
204 <211> LENGTH: 31
205 <212> TYPE: DNA
206 <213> ORGANISM: Ribgrass mosaic virus
208 <400> SEQUENCE: 19
209 tactcgaggt tcataagacc gcggtaggcg g
211 <210> SEQ ID NO: 20
212 <211> LENGTH: 36
213 <212> TYPE: DNA
214 <213> ORGANISM: Ribgrass mosaic virus
216 <400> SEQUENCE: 20
217 cgggggtacct gggccctac cgggggttta gggagg
219 <210> SEQ ID NO: 21
220 <211> LENGTH: 107
221 <212> TYPE: DNA
222 <213> ORGANISM: N. tabacum
224 <220> FEATURE:
225 <221> NAME/KEY: CDS
226 <222> LOCATION: (21)...(107)
228 <400> SEQUENCE: 21
229 gttttaaata cgctcgagcc atg gct tcc tca gtt ctt tcc tct gca gca gtt
230 Met Ala Ser Ser Val Leu Ser Ser Ala Ala Val
231 1 5 10
233 gcc acc cgc agc aat gtt gct caa gct aac atg gtt gca cct ttc act
234 Ala Thr Arg Ser Asn Val Ala Gln Ala Asn Met Val Ala Pro Phe Thr
235 15 20 25
237 ggc ctt
238 Gly Leu
242 <210> SEQ ID NO: 22
243 <211> LENGTH: 29
244 <212> TYPE: PRT
245 <213> ORGANISM: N. tabacum
247 <400> SEQUENCE: 22
248 Met Ala Ser Ser Val Leu Ser Ser Ala Ala Val Ala Thr Arg Ser Asn
249 1 5 10 15
250 Val Ala Gln Ala Asn Met Val Ala Pro Phe Thr Gly Leu
251 20 25
253 <210> SEQ ID NO: 23
254 <211> LENGTH: 1543
255 <212> TYPE: DNA
256 <213> ORGANISM: Tobacco mild green mosaic virus
258 <400> SEQUENCE: 23
259 ctcgagggtc ataagaccgc ggtaggcgga gcgtttgttt actgtagtat aattaaatat
260 ttgtcagata aaaggttgtt taaagatttg tttttgttt gactgagtcg ataattgtctt
261 acgagcctaa agtttagtgac ttcttgctc ttacgaaaaa ggaggaaatt ttaccaagg
262 ctttgacgag attaaagact gtctctatta gtactaagga tggtatatct gttaaggagt
263 ctgagtcctt gtgtgatatt gatttgtag tgaatgtgcc attagataag tataggtag

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PATENT APPLICATION: US/09/359,300

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Input Set : A:\008010137US07.TXT
Output Set : N:\CRF3\10112000\I359300.raw

| | | | | | | | |
|-----|-------------|-----------------------------|-------------|-------------|-------------|-------------|------|
| 264 | tgggtgtttt | gggtgttgtt | ttcacccgtg | aatggctggt | accggatttc | gttaaagggtg | 360 |
| 265 | gggtaacagt | gagcgtgatt | gacaaacggc | ttgaaaattc | cagagagtgc | ataattggta | 420 |
| 266 | cgtaccgagc | tgctgtaaag | gacagaagg | tccagttcaa | gctggttcca | aattacttcg | 480 |
| 267 | tatccattgc | ggatgccaa | cgaaaaccgt | ggcagggtca | tgtgcgaatt | caaaatctga | 540 |
| 268 | agatcgaagc | tggtatggca | cctctagctc | tagagggtgt | ttctgttgcc | atggttacta | 600 |
| 269 | ataacgtggt | tgtaaagggt | ttgagggaaa | aggtcatcgc | agtgaatgat | ccgaacgtcg | 660 |
| 270 | aaggtttcga | aggtgtggtt | gacgatttcg | tcgattccgt | tgctgcattc | aaggcgattg | 720 |
| 271 | acagtttccg | aaagaaaaag | aaaaagattg | gaggaaaggga | tgtaataaat | aataagtata | 780 |
| 272 | gatataagacc | ggagagatac | gccggtccctg | attcgttaca | atataaagaa | gaaaatgggt | 840 |
| 273 | tacaacatca | cgagctcgaa | tcagtaccag | tatttcgcag | cgatgtgggc | agagcccaca | 900 |
| 274 | gcgatgctta | accagtcggt | gtctgcgttg | tcgcaatcgt | atcaaaactca | ggcgccaaga | 960 |
| 275 | gatactgtta | gacagcagtt | ctctaaccct | ctgagtgcga | ttgtgacacc | gaaccagcgg | 1020 |
| 276 | ttccagaaaa | caggataaccg | ggtgtatatt | aattcagcag | ttctaaaacc | gttgtacgag | 1080 |
| 277 | tctctcatga | agtcctttga | tactagaaat | aggatcattg | aaactgaaga | agagtgcgct | 1140 |
| 278 | ccatcggtct | ccgaagtatc | taatgcaaca | caacgtgttg | atgatgcgac | cgtggccatc | 1200 |
| 279 | aggagtcaaa | ttcagctttt | gctgaacgag | ctctccaacg | gacatggtct | gatgaacagg | 1260 |
| 280 | gcagagtctg | aggtttttatt | accttgggct | actgcgccag | ctacataggc | gtggtgcaca | 1320 |
| 281 | cgatagtcca | tagtgttttt | ctctccactt | aaatcgaaaga | gatatactta | cgtgtgaatt | 1380 |
| 282 | ccgcaagggt | ggcgtaaaacc | aaattacgca | atgttttagg | ttccatttaa | atcgaaacct | 1440 |
| 283 | gttatttctt | ggatcacctg | ttaacgtacg | cgtggcggtat | attacagtgg | gaataactaa | 1500 |
| 284 | aagtgcagag | ttcgaatcct | ccetaacccc | gggtaggggc | cca | | 1543 |
| 286 | <210> | SEQ ID NO: 24 | | | | | |
| 287 | <211> | LENGTH: 55 | | | | | |
| 288 | <212> | TYPE: DNA | | | | | |
| 289 | <213> | ORGANISM: rape mosaic virus | | | | | |
| 291 | <400> | SEQUENCE: 24 | | | | | 55 |
| 292 | gatggcgctt | taatacgact | cactatagtt | ttatttttgt | tgcaacaaca | acaac | |
| 294 | <210> | SEQ ID NO: 25 | | | | | |
| 295 | <211> | LENGTH: 30 | | | | | |
| 296 | <212> | TYPE: DNA | | | | | |
| 297 | <213> | ORGANISM: rape mosaic virus | | | | | |
| 299 | <400> | SEQUENCE: 25 | | | | | 30 |
| 300 | cttgtgcctt | tcatacgag | ctatatcacg | | | | |
| 302 | <210> | SEQ ID NO: 26 | | | | | |
| 303 | <211> | LENGTH: 497 | | | | | |
| 304 | <212> | TYPE: DNA | | | | | |
| 305 | <213> | ORGANISM: rape mosaic virus | | | | | |
| 307 | <400> | SEQUENCE: 26 | | | | | 60 |
| 308 | ccttaatacg | actcaactata | gttttatttt | tggtgcaaca | acaacaacaa | attacaataa | 120 |
| 309 | caacaaaaca | aatacaaaaca | acaacaacat | ggcacaattt | caacaaacag | taaacaatgca | 180 |
| 310 | aacattgcag | gctgcgcgag | ggcgcaacag | cctgggtgaat | gatttagcct | cacgacgtgt | 240 |
| 311 | ttatgacaat | gctgtcgagg | agctaaatgc | acgctcgaga | cgccctaagg | ttcattactc | 300 |
| 312 | caaatcagtg | tctacggaac | atgacgctgt | tagcttcaaa | cgcttatccg | gagtttgaga | 360 |
| 313 | tttcttttac | tcatacccaa | catgccgtac | actcccttgc | gggtggccta | aggactcttg | 420 |
| 314 | agtttagagta | tctcatgatg | caagttccgt | tcggttctct | gacgtacgac | atcggtggta | 480 |
| 315 | actttgcagc | gcaccttttc | aaaggacgag | actacgttca | ctgctgtatg | ccaaacttgg | 497 |
| 316 | atgtacgtga | tatagct | | | | | |
| 318 | <210> | SEQ ID NO: 27 | | | | | |
| 319 | <211> | LENGTH: 55 | | | | | |

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/359,300

DATE: 10/11/2000

TIME: 12:10:46

Input Set : A:\008010137US07.TXT

Output Set: N:\CRF3\10112000\I359300.raw

L:94 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:9, CDS LOCATION: (28)...(115)
L:733 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 50